

IN THE CLAIMS

Please amend the claims according to the following listing, in which insertions are indicated by underline and deletions are indicated by strikethrough or double brackets. This listing of claims will replace all prior versions, and listings, of claims in the application.

Claim 1. (Currently amended) A light guide having an end face at a longitudinal end,
[[an]] a light-emitting face and two internal side faces, and

which emits lights incident on the end face from the light-emitting face extending longitudinally of the guide, while the lights are reflected by the internal side faces wherein sectional shapes of said two internal side faces are oval arc curves or paraboloid curves, and a concentrating position of lights reflected by one side face and a concentrating position of lights reflected by the other side face are different from each other, and wherein

the curved surfaces of the oval arc curves or paraboloid curves have differently shaped areas such that light emitted after being reflected by the two curved surfaces concentrate at different distances from the curved surfaces.

Claim 2. (Previously presented) The light guide according to Claim 1, wherein said light guide is integrally formed as a unitary member.

Claim 3. (Currently amended) The light guide according to Claim 1, wherein said light guide includes two substantially half pieces connected together, and oval arcs or paraboloids, which constitute reflective faces, are formed on the substantially half pieces.

Claim 4. (Currently amended) The light guide according to Claim 3, wherein a light scattering part is formed in connecting faces of said substantially half pieces together.

Claim 5. (Previously presented) A light guide having an end face, an emitting face and two internal side faces, and which emits lights incident on the end face from the emitting face extending longitudinally of the guide, while the lights are reflected by the internal side faces wherein sectional shapes of both of said two internal side faces are oval arc curves, and a difference in focal distance between the oval arc curves causes concentrating positions of reflected lights to be different.

Claim 6. (Currently amended) A light guide having an end face at a longitudinal end, ~~[[an]]~~ a light-emitting face and internal side faces, and which emits lights incident on the end face from the light-emitting face extending longitudinally of the guide, while the lights are reflected by the internal side faces wherein sectional shapes of the internal side surfaces have two oval arc curved areas, and concentrating positions of reflected lights differ from one oval arc curve to the other, and wherein

the curved surfaces of the oval arc curves have differently shaped areas such that light emitted after being reflected by the two curved surfaces concentrate at different distances from the curved surfaces.

Claim 7. (Currently amended) An image reader ~~[[characterized in that]]~~ comprising an illuminating unit comprising the light guide according to Claim 1, a light source provided at an end face at a longitudinal end of the light guide, and a lens array for converging on a light receiving element lights radiated from the illuminating unit toward a document and reflected by the document or transmitted by the document, and a box housing the illuminating unit, the lens array and the light receiving element.

Claim 8. (Currently amended) The image reader according to Claim 7 including two of said illuminating units, and the illuminating units are so arranged as to cause lights emitted from

the light-emitting faces of the light guides thereof to irradiate the same area of an illuminated face of the document.

Claim 9. (Currently amended) An image reader [[characterized in that]] comprising an illuminating unit comprising the light guide according to Claim 5, a light source provided at an end face at a longitudinal end of the light guide, and a lens array for converging on a light receiving element lights radiated from the illuminating unit toward a document and reflected by the document or transmitted by the document, and a box housing the illuminating unit, the lens array and the light receiving element.

Claim 10. (Currently amended) The image reader according to Claim 9 including two of said illuminating units, and the illuminating units are so arranged as to cause lights emitted from the light-emitting faces of the light guides thereof to irradiate the same area of an illuminated face of the document.

Claim 11. (Currently amended) An image reader [[characterized in that]] comprising an illuminating unit comprising the light guide according to Claim 6, a light source provided at an end face at a longitudinal end of the light guide, and a lens array for converging on a light receiving element lights radiated from the illuminating unit toward a document and reflected by the document or transmitted by the document, and a box housing the illuminating unit, the lens array and the light receiving element.

Claim 12. (Currently amended) The image reader according to Claim 11 including two of said illuminating units, and the illuminating units are so arranged as to cause lights emitted from the light-emitting faces of the light guides thereof to irradiate the same area of an illuminated face of the document.

Claim 13. (New) The light guide of claim 1, wherein the light guide is shaped such that light is emitted in a line shape through said light-emitting face.

Claim 14. (New) The light guide of claim 5, wherein the light guide is shaped such that light is emitted in a line shape through said emitting face.

Claim 15. (New) The light guide of claim 6, wherein the light guide is shaped such that light is emitted in a line shape through said light-emitting face.

Claim 16. (New) The light guide of claim 1, further comprising a bottom face opposite to said light-emitting face, and a light scattering part formed with the bottom face.

Claim 17. (New) The light guide of claim 5, further comprising a bottom face opposite to said emitting face, and a light scattering part formed with the bottom face.

Claim 18. (New) The light guide of claim 6, further comprising a bottom face opposite to said light-emitting face, and a light scattering part formed with the bottom face.

Claim 19. (New) The light guide of claim 1, further comprising a bottom face opposite to said light-emitting face, and the light-emitting face includes portions disposed at different distances from the bottom face.

Claim 20. (New) The light guide of claim 6, further comprising a bottom face opposite to said light-emitting face, and the light-emitting face includes portions disposed at different distances from the bottom face.